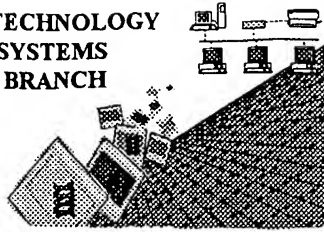


BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/049,710
Source: PJ/10
Date Processed by STIC: 7/29/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



PCT10

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/049,710

DATE: 07/29/2002

TIME: 09:16:12

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\07292002\J049710.raw

pp 1,3-4
Does Not Comply
Corrected Diskette Needed

1 <110> APPLICANT: Shinmyo, Atsuhiko Kato,
W--> 2 <120> TITLE OF INVENTION:
W--> 3 <130> FILE REFERENCE:
W--> 4 <140> CURRENT APPLICATION NUMBER: 10/049,710<141> 2002-02-15<150> PCT/JP01/05096<151>
2001-06-
C--> 5 <141> CURRENT FILING DATE: 2002-06-21
5 <150> PRIOR APPLICATION NUMBER: JP 2000-180466<151> 2000-06-15<160> 11 <170> PatentIn
version

*major format error - Please contact Robert Wax
at 703-306-4119 or
703-308-4216 for assistance*

ERRORED SEQUENCES

W--> 6 <210> SEQ ID NO: 1<211> 699<212> DNA<213> Streptomyces virginiae<220><221> CDS<222>
7 <223> OTHER INFORMATION:
W--> 9 <300> PUBLICATION INFORMATION: <301> Okamoto, S., Nakamura, K., Nihira, T. and Yamada,
Y.<302> Virginiae
W--> 10 butanolide binding protein from Streptomyces virginiae. Evidence that VbrA is
W--> 11 not the virginiae butanolide binding protein and re-identification of the true
12 <303> JOURNAL: Journal of Biological Chemistry<304> 270<305> 20<306>
W--> 13 <307> DATE: 1995-05-19<308> D32251<309> 1994-07-19<313>
W--> 14 <300> PUBLICATION INFORMATION: <301> Okamoto, S., Nakamura, K., Nihira, T. and Yamada,
Y.<302>
W--> 15 Virginiae butanolide binding protein from Streptomyces virginiae. Evidence that
W--> 16 VbrA is not the virginiae butanolide binding protein and re-identification of
17 <303> JOURNAL: Journal of Biological Chemistry<304> 270<305>
18 <306> PAGES: 12319-12326<307> 1995-05-19<308> D32251<309> 1994-07-19<400> 1
W--> 19 <211> LENGTH:
W--> 19 <212> TYPE:
W--> 19 <213> ORGANISM:
E--> 19 <400> SEQUENCE:
W--> 19 atg gca gtg cga cac gaa cgg gtg gca gtg cga cag gaa cgg gcc gtc 48
19 atg gca gtg cga cac gaa cgg gtg gca gtg cga cag gaa cgg gcc gtc 48
20 Met Ala Val Arg His Glu Arg Val Ala Val Arg Gln Glu Arg Ala Val
21 1 5 10 15
23 cgc acg cgg cag gcg atc gtg cgg gca gcc gcc tcg gtc ttc gac gag 96
24 Arg Thr Arg Gln Ala Ile Val Arg Ala Ala Ala Ser Val Phe Asp Glu
25 20 25 30
27 tac ggg ttc gag gcc gcc aca gtg gca gag atc ctc tcg cgg gcc tcg 144
28 Tyr Gly Phe Glu Ala Ala Thr Val Ala Glu Ile Leu Ser Arg Ala Ser
29 35 40 45
31 gtc acc aag ggc gcg atg tac ttc cac ttc gct tcc aag gaa gag ctg 192
32 Val Thr Lys Gly Ala Met Tyr Phe His Phe Ala Ser Lys Glu Glu Leu
33 50 55 60
35 gcc cgc ggc gtg ctg gcc gag cag acc ctg cac gtg gcg gtg ccg gaa 240

36	Ala	Arg	Gly	Val	Leu	Ala	Glu	Gln	Thr	Leu	His	Val	Ala	Val	Pro	Glu	
37	65					70					75					80	
39	tcc	ggc	tcc	aag	gcg	cag	gaa	ctg	gta	gac	ctc	acc	atg	ctg	gtc	gcc	288

RAW SEQUENCE LISTING

DATE: 07/29/2002

PATENT APPLICATION: US/10/049,710

TIME: 09:16:12

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\07292002\J049710.raw

```

40 Ser Gly Ser Lys Ala Gln Glu Leu Val Asp Leu Thr Met Leu Val Ala
41      85      90      95
43 cac ggc atg ctg cac gat ccg atc ctg cgg gcg ggc acg cgg ctc gca      336
44 His Gly Met Leu His Asp Pro Ile Leu Arg Ala Gly Thr Arg Leu Ala
45      100      105      110
47 ctg gac cag ggg gcg gtg gac ttc tcc gac gcc aac ccg ttc ggc gag      384
48 Leu Asp Gln Gly Ala Val Asp Phe Ser Asp Ala Asn Pro Phe Gly Glu
49      115      120      125
51 tgg ggc gac atc tgc gcc cag ctc ctg gcg gag gca cag gaa cgg ggg      432
52 Trp Gly Asp Ile Cys Ala Gln Leu Leu Ala Glu Ala Gln Glu Arg Gly
53      130      135      140
55 gag gtg ctt ccg cac gtg aac ccg aaa aag acc ggc gac ttc atc gtc      480
56 Glu Val Leu Pro His Val Asn Pro Lys Lys Thr Gly Asp Phe Ile Val
57 145      150      155      160
59 ggc tgc ttc acc ggg ctc cag gcg gtc tcc cgg gtc acc tcc gac cgc      528
60 Gly Cys Phe Thr Gly Leu Gln Ala Val Ser Arg Val Thr Ser Asp Arg
61      165      170      175
63 cag gac ctc ggc cac cgg atc tcg gtg atg tgg aac cac gtg ctg ccc      576
64 Gln Asp Leu Gly His Arg Ile Ser Val Met Trp Asn His Val Leu Pro
65      180      185      190
67 agc atc gtg ccg gcg tcc atg ctg acc tgg atc gaa acc ggc gag gag      624
68 Ser Ile Val Pro Ala Ser Met Leu Thr Trp Ile Glu Thr Gly Glu Glu
69      195      200      205
71 cgg atc ggg aag gtc gcg gcg gcg gcc gag gcc gcc gag gct gcg gag      672
72 Arg Ile Gly Lys Val Ala Ala Ala Ala Glu Ala Ala Glu Ala Ala Glu
73      210      215      220
75 gcc tcc gag gcc gcc tcc gac gag tag      699
76 Ala Ser Glu Ala Ala Ser Asp Glu
77 225      230

```

80 <210> SEQ ID NO: 2<211> 232<212> PRT<213> Streptomyces virg .ue<400> 2

W--> 82 <211> LENGTH:

W--> 82 <212> TYPE:

W--> 82 <213> ORGANISM:

E--> 82 <400> SEQUENCE:

same enon

```

82 Met Ala Val Arg His Glu Arg Val Ala Val Arg Gln Glu Arg Val
83 1      5      10      15
86 Arg Thr Arg Gln Ala Ile Val Arg Ala Ala Ala Ser Val Phe Asp Glu
87      20      25      30
90 Tyr Gly Phe Glu Ala Ala Thr Val Ala Glu Ile Leu Ser Arg Ala Ser
91      35      40      45
94 Val Thr Lys Gly Ala Met Tyr Phe His Phe Ala Ser Lys Glu Glu Leu
95      50      55      60
98 Ala Arg Gly Val Leu Ala Glu Gln Thr Leu His Val Ala Val Pro G
99 65      70      75
102 Ser Gly Ser Lys Ala Gln Glu Leu Val Asp Leu Thr Met Leu Val Ala
103      85      90
106 His Gly Met Leu His Asp Pro Ile Leu Arg Ala Gly Thr Arg Leu Ala
107      100      105      110
110 Leu Asp Gln Gly Ala Val Asp Phe Ser Asp Ala Asn Pro Phe Gly Glu

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/049,710

DATE: 07/29/2002

TIME: 09:16:12

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\07292002\J049710.raw

```

111          115          120          125
114 Trp Gly Asp Ile Cys Ala Gln Leu Leu Ala Glu Ala Gln Glu Arg Gly
115          130          135          140
118 Glu Val Leu Pro His Val Asn Pro Lys Lys Thr Gly Asp Phe Ile Val
119 145          150          155          160
122 Gly Cys Phe Thr Gly Leu Gln Ala Val Ser Arg Val Thr Ser Asp Arg
123          165          170          175
126 Gln Asp Leu Gly His Arg Ile Ser Val Met Trp Asn His Val Leu Pro
127          180          185          190
130 Ser Ile Val Pro Ala Ser Met Leu Thr Trp Ile Glu Thr Gly Glu Glu
131          195          200          205
134 Arg Ile Gly Lys Val Ala Ala Ala Glu Ala Ala Glu Ala Ala Glu
135          210          215          220
138 Ala Ser Glu Ala Ala Ser Asp Glu
139 225          230

```

*same
error*

```

142 <210> SEQ ID NO: 3<211> 26<212> DNA<213> Streptomyces virginiae<300><301> Kinoshita,
143 <302> TITLE: Charaacterization of Characterization
144 Binding Sequences for Butyrolactone Autoregulator Receptors in
145 <303> JOURNAL: Journal of Bacteriology<304> 181<305> 16<306> 5075-

```

W--> 146 <300> PUBLICATION INFORMATION: 1999-08 <308> D32251<309> 1994-07-19<313> (1)..(26)
<300><301>

```

147 <302> TITLE: same misspelling
148 Charaacterization of Binding Sequences for Butyrolactone Autoregulator

```

Receptors

```

149 <303> JOURNAL: Journal of Bacteriology<304> 181<305> 16<306> 5075-

```

W--> 150 <307> DATE: 1999-08 <308> D32251<309> 1994-07-19<400> 3

W--> 151 <211> LENGTH:

W--> 151 <212> TYPE:

W--> 151 <213> ORGANISM:

E--> 151 <400> SEQUENCE:

```

151 agatacatac caaccggttc ttttga

```

26